

CLASSIFICATION: 095100

PRODUCT DESCRIPTION: SMOOTH-TEXTURED OPTIMA PANELS PROVIDE EXCELLENT ACOUSTICAL ABSORPTION AND MORE STANDARD-SIZE OPTIONS THAN ANY OTHER TEXTURE IN THE LINE. KEY FEATURES: •OUTSTANDING ACOUSTICAL PERFORMANCE FOR OPEN PLAN AREAS, BOTH ARTICULATION CLASS (180-200) AND NRC (0.90-1.00) •SMOOTH, CLEAN, DURABLE FINISH – WASHABLE, IMPACT-RESISTANT, SCRATCH-RESISTANT, SOIL-RESISTANT •ENERGY-SAVING HIGH LIGHT-REFLECTIVE FINISH •NON-DIRECTIONAL VISUAL REDUCES SCRAP AND INSTALLATION TIME •MADE WITH A PLANT-BASED BINDER •SAG-RESISTANT LARGE-SIZE PANELS •COMPATIBLE WITH TECHZONE™ CEILING SYSTEMS

Section 1: Summary

CONTENT INVENTORY

Threshold per material	Residuals and impurities considered in 3 of 3 materials
<input type="radio"/> 100 ppm	<input type="radio"/> see Section 2:
<input checked="" type="radio"/> 1,000 ppm	Material Notes
<input type="radio"/> Per GHS SDS	<input checked="" type="radio"/> see Section 5:
<input type="radio"/> Per OSHA MSDS	General Notes
<input type="radio"/> Other	

Based on the selected Content Inventory Threshold:

Characterized.....	<input checked="" type="radio"/>	<input type="radio"/>
Are the Percent Weight and Role provided for all substances?	Yes	No
Screened.....	<input checked="" type="radio"/>	<input type="radio"/>
Are all substances screened using Priority Hazard Lists with results disclosed?	Yes	No
Identified.....	<input type="radio"/>	<input checked="" type="radio"/>
Are all substances disclosed by Name (Specific or Generic) and Identifier?	Yes	No

CONTENT IN DESCENDING ORDER OF QUANTITY

Summary of product contents and results from screening individual chemical substances against HPD Priority Hazard Lists and the GreenScreen for Safer Chemicals®. The HPD does not assess whether using or handling this product will expose individuals to its chemical substances or any health risk. Refer to Section 2 for further details.

MATERIAL | SUBSTANCE | RESIDUAL OR IMPURITY
GREENSCREEN SCORE | HAZARD TYPE

CEILING SUBSTRATE [FIBERGLASS UNK STARCH ACRYLIC BINDER UNK MODIFIED VEGETABLE OIL UNK COATING [LIMESTONE; CALCIUM CARBONATE LT-UNK DOLOMITE UNK CALCIUM CARBONATE BM-3 TITANIUM DIOXIDE LT-1 | CAN ALUMINA TRIHYDRATE BM-2 | RES POLYVINYL ACETATE (PVA) LT-UNK DIATAMACEOUS EARTH UNK MICA LT-UNK ALUMINUM HYDROXIDE UNK PROPRIETARY SCREENED INGREDIENT UNK FACING [FIBERGLASS UNK POLY(VINYL ALCOHOL) LT-UNK POLYVINYL ACETATE (PVA) LT-UNK PROPRIETARY SCREENED INGREDIENT UNK PLASTICIZER UNK]

Number of Greenscreen BM-4/BM3 contents..... 1
Contents highest concern GreenScreen Benchmark or List translator Score..... LT-1
Nanomaterial..... No

INVENTORY AND SCREENING NOTES:

Residuals/impurities in select raw materials are quantitatively measured, and are displayed in the HPD when greater than 1000ppm.

VOLATILE ORGANIC COMPOUND (VOC) CONTENT

VOC Content data is not applicable for this product category.

CERTIFICATIONS AND COMPLIANCE

VOC emissions: Clear Chem - Berkeley Analytical - Third party compliant with California Dept. of Public Health CDPH/EHLB/Standard Method Version 1.1 2010.
LCA: Environmental Product Declaration

See Section 3 for additional listings.

<input checked="" type="radio"/> Self-Published*	VERIFIER:	SCREENING DATE: December 12, 2016	EXPIRY DATE*: December 12, 2019
<input type="radio"/> Third Party Verified	VERIFICATION #:	RELEASE DATE: December 12, 2016	* or within 3 months of significant change in product contents
*See HPDC website for details			



Section 2: Content in Descending Order of Quantity

This section lists materials in a product and the substances in each material based on the Inventory Threshold for each material. If residuals or impurities from the manufacturing or extraction processes are considered for a material, these are inventoried and characterized to the extent described in the Material and/or General Notes. Chemical substances are screened against the HPD Priority Hazard Lists for human and environmental health impacts. Screening is based on best available information; "Not Found" does not necessarily mean there is no potential hazard associated with the product or its contents. More information about Priority Hazard Lists and the GreenScreen can be found online: www.hpd-collaborative.org and www.greenscreenchemicals.org.

CEILING SUBSTRATE %: 75.0000 - 85.0000 HPD URL:

Inventory Threshold: 1000 ppm Residuals Considered: Yes

Material Notes:

FIBERGLASS

ID: 65997-17-3

%: 65.0000 - 70.0000 GS: UNK RC: Both NANO: NO ROLE: Core material

HAZARDS:

AGENCY(IES) WITH WARNINGS:

None Found

No warnings found on HPD Priority lists

SUBSTANCE NOTES:

STARCH ACRYLIC BINDER

ID: 60323-79-7

%: 5.0000 - 10.0000 GS: UNK RC: None NANO: NO ROLE: Binder

HAZARDS:

AGENCY(IES) WITH WARNINGS:

None Found

No warnings found on HPD Priority lists

SUBSTANCE NOTES:

MODIFIED VEGETABLE OIL

ID: 68918-91-2

%: 0.5000 - 5.0000 GS: UNK RC: UNK NANO: NO ROLE: Binder

HAZARDS:

AGENCY(IES) WITH WARNINGS:

None Found

No warnings found on HPD Priority lists

SUBSTANCE NOTES:

COATING

%: 6.0000 - 10.0000 HPD URL:

Inventory Threshold: 1000 ppm Residuals Considered: Yes

Material Notes:

LIMESTONE; CALCIUM CARBONATE

ID: 1317-65-3

%: 6.0000 - 10.0000 GS: LT-UNK RC: UNK NANO: NO ROLE: Filler

HAZARDS:

AGENCY(IES) WITH WARNINGS:

None Found

No warnings found on HPD Priority lists

SUBSTANCE NOTES:

DOLOMITE

ID: 16389-88-1

%: 2.0000 - 5.0000 GS: UNK RC: UNK NANO: NO ROLE: Filler

HAZARDS:

AGENCY(IES) WITH WARNINGS:

None Found

No warnings found on HPD Priority lists

SUBSTANCE NOTES:

CALCIUM CARBONATE

ID: 471-34-1

%: 2.0000 - 4.0000 GS: BM-3 RC: UNK NANO: NO ROLE: Filler

HAZARDS:

AGENCY(IES) WITH WARNINGS:

None Found

No warnings found on HPD Priority lists

SUBSTANCE NOTES:

TITANIUM DIOXIDE

ID: 13463-67-7

%: 1.0000 - 3.0000 GS: LT-1 RC: UNK NANO: NO ROLE: Pigment

HAZARDS:

AGENCY(IES) WITH WARNINGS:

CANCER

US CDC - Occupational Carcinogens

Occupational Carcinogen

CANCER	CA EPA - Prop 65	Carcinogen - specific to chemical form or exposure route
CANCER	IARC	Group 2B - Possibly carcinogenic to humans - inhaled from occupational sources
CANCER	MAK	Carcinogen Group 3A - Evidence of carcinogenic effects but not sufficient to establish MAK/BAT value

SUBSTANCE NOTES: Since Titanium Dioxide is bound within the coating and not inhalable, it is excluded from regulatory hazard lists. It is not in a respirable form in the final product.

ALUMINA TRIHYDRATE		ID: 21645-51-2		
%: 0.5000 - 1.0000	GS: BM-2	RC: UNK	NANO: NO	ROLE: Filler

HAZARDS:	AGENCY(IES) WITH WARNINGS:			
RESPIRATORY	AOEC - Asthmagens	Asthmagen (ARs) - sensitizer-induced - inhalable forms only		

SUBSTANCE NOTES:

POLYVINYL ACETATE (PVA)		ID: 9003-20-7		
%: 0.1000 - 1.0000	GS: LT-UNK	RC: UNK	NANO: NO	ROLE: Binder

HAZARDS:	AGENCY(IES) WITH WARNINGS:			
None Found	No warnings found on HPD Priority lists			

SUBSTANCE NOTES:

DIATAMACEOUS EARTH		ID: 68855-54-9		
%: 0.1000 - 1.0000	GS: UNK	RC: UNK	NANO: NO	ROLE: Filler

HAZARDS:	AGENCY(IES) WITH WARNINGS:			
None Found	No warnings found on HPD Priority lists			

SUBSTANCE NOTES:

MICA		ID: 12001-26-2		
%: 0.1000 - 1.0000	GS: LT-UNK	RC: UNK	NANO: NO	ROLE: Filler

HAZARDS:**AGENCY(IES) WITH WARNINGS:**

None Found

No warnings found on HPD Priority lists

SUBSTANCE NOTES:

ALUMINUM HYDROXIDE

ID: 21645-51-2

%: 0.1000 - 1.0000

GS: UNK

RC: UNK

NANO: NO

ROLE: Filler

HAZARDS:**AGENCY(IES) WITH WARNINGS:**

None Found

No warnings found on HPD Priority lists

SUBSTANCE NOTES:

PROPRIETARY SCREENED INGREDIENT

ID: Proprietary

%: 0.0100 - 0.2000

GS: UNK

RC: None

NANO: NO

ROLE: Preservative

HAZARDS:**AGENCY(IES) WITH WARNINGS:**

None Found

No warnings found on HPD Priority lists

SUBSTANCE NOTES: This ingredient has been screened against all HPDv2 Priority Hazard Lists, and no hazards are indicated.

FACING

%: 3.0000 - 6.0000 HPD URL:

Inventory Threshold: 1000 ppm Residuals Considered: Yes

Material Notes:

FIBERGLASS

ID: 65997-17-3

%: 2.0000 - 4.0000

GS: UNK

RC: Both

NANO: NO

ROLE: Fiber Core

HAZARDS:**AGENCY(IES) WITH WARNINGS:**

None Found

No warnings found on HPD Priority lists

SUBSTANCE NOTES:

POLY(VINYL ALCOHOL)

ID: 9002-89-5

%: 1.0000 - 3.0000

GS: LT-UNK

RC: UNK

NANO: NO

ROLE: Binder

HAZARDS:**AGENCY(IES) WITH WARNINGS:**

None Found

No warnings found on HPD Priority lists

SUBSTANCE NOTES:

POLYVINYL ACETATE (PVA)

ID: 9003-20-7

%: 1.0000 - 3.0000

GS: LT-UNK

RC: UNK

NANO: NO

ROLE: Adhesive

HAZARDS:

AGENCY(IES) WITH WARNINGS:

None Found

No warnings found on HPD Priority lists

SUBSTANCE NOTES:

PROPRIETARY SCREENED INGREDIENT

ID: Proprietary

%: 0.2000 - 0.7500

GS: UNK

RC: UNK

NANO: NO

ROLE: Filler

HAZARDS:

AGENCY(IES) WITH WARNINGS:

None Found

No warnings found on HPD Priority lists

SUBSTANCE NOTES: This ingredient has been screened against all HPDv2 Priority Hazard Lists, and it is free of any chemicals of concern.

PLASTICIZER

ID: 27138-31-4

%: 0.1000 - 1.0000

GS: UNK

RC: UNK

NANO: NO

ROLE: Adhesive

HAZARDS:

AGENCY(IES) WITH WARNINGS:

None Found

No warnings found on HPD Priority lists

SUBSTANCE NOTES:



Section 3: Certifications and Compliance

This section lists applicable certification and standards compliance information for VOC emissions and VOC content. Other types of health or environmental performance testing or certifications completed for the product may be provided.

VOC EMISSIONS

CERTIFYING PARTY: Second Party

APPLICABLE FACILITIES:

CERTIFICATE URL: <https://www.armstrongceilings.com/pdbupimages-clg/201064.pdf/download/voc-certificate-of-compliance-optima.pdf>

CERTIFICATION AND COMPLIANCE NOTES:

LCA

Clear Chem - Berkeley Analytical - Third party compliant with California Dept. of Public Health CDPH/EHLB/Standard Method Version 1.1 2010.

ISSUE DATE:
2016-02-02

EXPIRY DATE:
2018-02-02

CERTIFIER OR
LAB: Berkeley
Analytical

Environmental Product Declaration

CERTIFYING PARTY: Third Party
APPLICABLE FACILITIES:
CERTIFICATE URL: <https://www.armstrongceilings.com/pdbupimages-clg/213584.PDF/download/optima-ceiling-panels-epd.PDF>
CERTIFICATION AND COMPLIANCE NOTES: Environmental Product Declaration for Optima PB

ISSUE
DATE: 2016-
03-31

EXPIRY
DATE: 2020-
03-31

CERTIFIER OR LAB:
UL Environment

Section 4: Accessories

This section lists related products or materials that the manufacturer requires or recommends for installation (such as adhesives or fasteners), maintenance, cleaning, or operations. For information relating to the contents of these related products, refer to their applicable Health Product Declarations, if available.

ARMSTRONG SUSPENSION SYSTEMS

HPD URL: No HPD link provided

CONDITION WHEN RECOMMENDED OR REQUIRED AND/OR OTHER NOTES: Suspension System available to create complete Armstrong Ceiling System.

Section 5: General Notes

Please refer to the Armstrong Commercial Ceilings website for more information on this product.

<https://www.armstrongceilings.com/commercial/en-us/commercial-ceilings-walls/optima-plant-based-ceiling-tiles.html> Armstrong World Industries expresses no opinion to its applicability, suitability, or completeness of the declaration form or the standards and criteria utilized or referenced therein. Information provided by Armstrong World Industries herein is qualified in the entirety by reference to the product Safety Data Sheet (SDS), which can be located at www.armstrongceilings.com.



MANUFACTURER INFORMATION

MANUFACTURER: Armstrong World Industries

CONTACT NAME: Armstrong Technical Services

ADDRESS: 2500 Columbia Avenue
Lancaster, PA 17603
USA

TITLE: Techline

PHONE: 1-877-276-7876

WEBSITE: www.armstrongceilings.com

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KEY

OSHA MSDS Occupational Safety and Health Administration Material Safety Data Sheet

GHS SDS Globally Harmonized System of Classification and Labeling of Chemicals Safety Data Sheet

Hazard Types

AQU Aquatic toxicity

GLO Global warming

PHY Physical Hazard (reactive)

CAN Cancer

MAM Mammalian/systemic/organ toxicity

REP Reproductive toxicity

DEV Developmental toxicity

MUL Multiple hazards

RES Respiratory sensitization

END Endocrine activity

NEU Neurotoxicity

SKI Skin sensitization/irritation/corrosivity

EYE Eye irritation/corrosivity

OZO Ozone depletion

LAN Land Toxicity

GEN Gene mutation

PBT Persistent Bioaccumulative Toxic

NF Not found on Priority Hazard Lists

GreenScreen (GS)

BM-4 Benchmark 4 (prefer-safer chemical)

LT-P1 List Translator Possible Benchmark 1

BM-3 Benchmark 3 (use but still opportunity for improvement) BM-2
Benchmark 2 (use but search for safer substitutes)

LT-1 List Translator Likely Benchmark 1

BM-1 Benchmark 1 (avoid - chemical of high concern)

LT-UNK List Translator Benchmark Unknown (insufficient
information from List Translator lists to benchmark)

BM-U Benchmark Unspecified (insufficient data to benchmark)

UNK Unknown (no data on List Translator Lists)

Recycled Types

PreC Preconsumer (Post-Industrial)

PostC Postconsumer

Both Both Preconsumer and Postconsumer

Unk Inclusion of recycled content is unknown

None Does not include recycled content

Other

Nano Composed of nanoscale particles or nanotechnology

Declaration Level

Self-declared Manufacturer's self-declaration (First Party)

Independent Lab Manufacturer's self-declaration using results from an independent lab

Second Party Verification by trade association or other interested party

Third Party Verification by independent certifier

Applicable facilities Manufacturing sites to which testing applies

The Health Product Declaration (HPD) Open Standard provides for the disclosure of product contents and potential associated human and environmental health hazards. Hazard associations are based on the HPD Priority Hazard Lists, the GreenScreen List Translator, and when available, full GreenScreen assessments. The HPD Open Standard does not provide an assessment of health impacts throughout the product life cycle. It does not provide an assessment of exposure or risk associated with product handling or use. It also does not address potential health impacts of: (i) substances used or created during the manufacturing process unless they remain in the final product, or (ii) substances created after the product is delivered for end use (e.g., if the product burns, degrades, or otherwise changes chemical composition).

The HPD Open Standard was created and is maintained and evolved by the Health Product Declaration Collaborative (the HPD Collaborative), a customer-led organization composed of stakeholders throughout the building industry. The HPD Collaborative is committed to the continuous improvement of building products through transparency, openness, and innovation throughout the product supply chain.

A disclosure completed in compliance with the HPD Open Standard is referred to as a "Health Product Declaration," or "HPD." The product manufacturer and any applicable independent verifier are solely responsible for the accuracy of statements and claims made in this HPD and for compliance with the HPD Open Standard noted.